

Impaired Driving



LESSON OBJECTIVES

Upon successfully completing this lesson, the student will:

- Know the facts related to DWI crashes.
- Know how alcohol affects you physically and your ability to drive.
- Know the characteristics of alcohol and how it affects the body
- Know the Navy & Marine Corps requirements on alcohol abuse prevention and deglamorization campaigns.
- Know ways to intervene to prevent shipmates from drinking and driving.

ULTIMATE GOAL:



Increase DWI Deterrence and
Decrease Alcohol-Related Crashes,
Deaths and Injuries

Drunk and Impaired Drivers Kill or Injure A Person Every Minute!

Approximately 43,000 people die each year on U.S.
Highways

Alcohol is a factor in at least half of those deaths

Serious Injuries to more than 350,000

Cost range is in the tens of billions of dollars

Alcohol Facts

- Alcohol is involved in approximately **44%** of all fatal crashes, **9%** of reported injury crashes and **5%** of non-injury crashes.
- These alcohol related crashes, injuries, and fatalities cost society approximately **\$46 billion** in lost productivity, medical cost, property damage and other direct expenditures. Over **\$5 billion** of these costs are for health care.

There is no such thing as a drunk driving accident.

Virtually all crashes involving alcohol/drugs could have been avoided if the impaired person were sober.

THE DWI PROBLEM

- About half of all fatal crashes involve drinking drivers
- Alcohol-related crashes are nine times more likely to result in death

WHO CONTRIBUTES TO THE DWI PROBLEM

- Heavy Drinkers - May be addicted to alcohol or have a pattern of problem drinking. They may drive drunk again and again.
- Social Drinkers - May have “one too many” just one time - but that one time can be deadly.

HOW ALCOHOL AFFECTS YOU PHYSICALLY

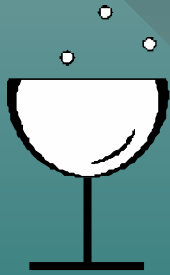
- Alcohol is absorbed quickly into the bloodstream.
- Alcohol slows the thought processes in the brain.
- Alcohol is collected in the body and processed (eliminated) slowly.

HOW ALCOHOL AFFECTS YOUR DRIVING SKILLS

- Poor Judgement - Alcohol dulls areas of the brain that enable people to make sensible, safe decisions.
- Visual Problems - Alcohol can cause double & blurred vision, making it hard to see.
- Slower Reaction Time - Drinking slows reflexes and interferes with coordination. Drivers who can't react quickly are dangerous to themselves and others.

Drivers with BAC 0.10% or Above

(NATIONAL STATISTICS)



Weekend Nights



10% or More

On typical Friday and Saturday
nights



one out of seven drivers leaving a bar
is DWI!

About a third of all
drivers arrested for DWI



Are repeat
offenders

ALCOHOL CHARACTERISTIC S

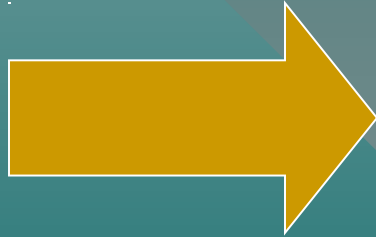
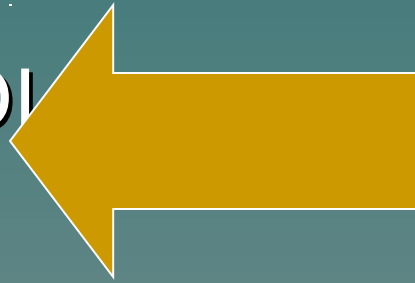
ALCOHOL

A family of closely-related chemicals whose molecules are made up of hydrogen, carbon and oxygen

SOME TYPES OF ALCOHOL

METHYL ALCOHOL

(Methanol)



ETHYL ALCOHOL

(Ethanol)

ISOPROPYL ALCOHOL

(Isopropanol)



ETHANOL

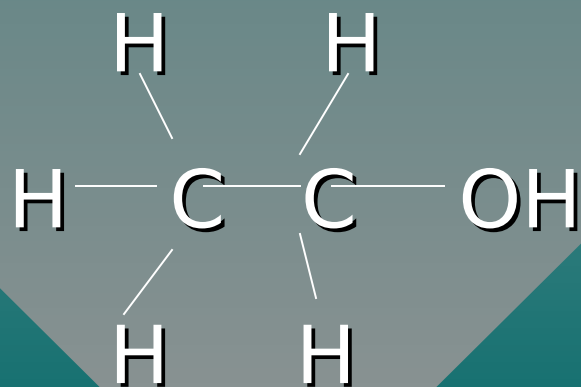
Ethyl Alcohol

(Intended for human consumption)

Chemical Symbols

ETOH

C₂H₅OH



PRODUCTION OF ETHANOL

FERMENTATION

Yeast combines with sugars from fruit or grains in a chemical reaction that results in ETOH

DISTILLATION

Fermented beverage is boiled at a controlled temperature to extract and concentrate the ethanol fumes

STANDARD-SIZED DRINKS



A CAN OF BEER

12 ounces of fluid @ 4% alcohol equals
0.48 ounces of pure ethanol



A GLASS OF WINE

4 ounces of fluid @ 12% alcohol
equals 0.48 ounces of pure ethanol



A SHOT OF WHISKEY (80-PROOF)

1 and 1/4 ounces @ 40%
alcohol equals 0.50 ounces of
pure ethanol

**ALCOHOL IS THE MOST
ABUSED DRUG IN THE
UNITED STATES.**

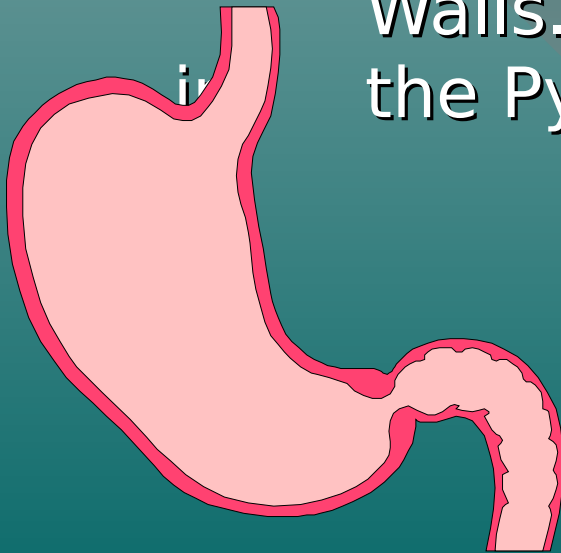


Alcohol is a Central
Nervous System
Depressant

Absorption of Alcohol

Getting the ethanol out of the stomach and into the blood

20% is diffused through the Stomach Walls. The remaining 80% is absorbed in the Pylorus (small intestine)



DISTRIBUTION OF ALCOHOL

Getting the ethanol into the body's tissues
and organs

BASIC PRINCIPLE

Ethanol goes wherever it finds water

Which Parts of the body have lots of water?

The **BRAIN**; The **LIVER**; **MUSCLE**
TISSUE

WHICH PARTS DON'T?

BONES; **FATTY TISSUE**

The average male is 68% water.

The average female is only 55% water.

METABOLISM IN THE LIVER

- The liver **burns** the ethanol (i.e., causes a chemical reaction of ethanol with oxygen)
- The process is aided by an enzyme called **alcohol dehydrogenase**
- The ultimate products of the chemical reaction are carbon dioxide and water
- Due to metabolism, the average person's BAC drops by about **0.015% per hour**

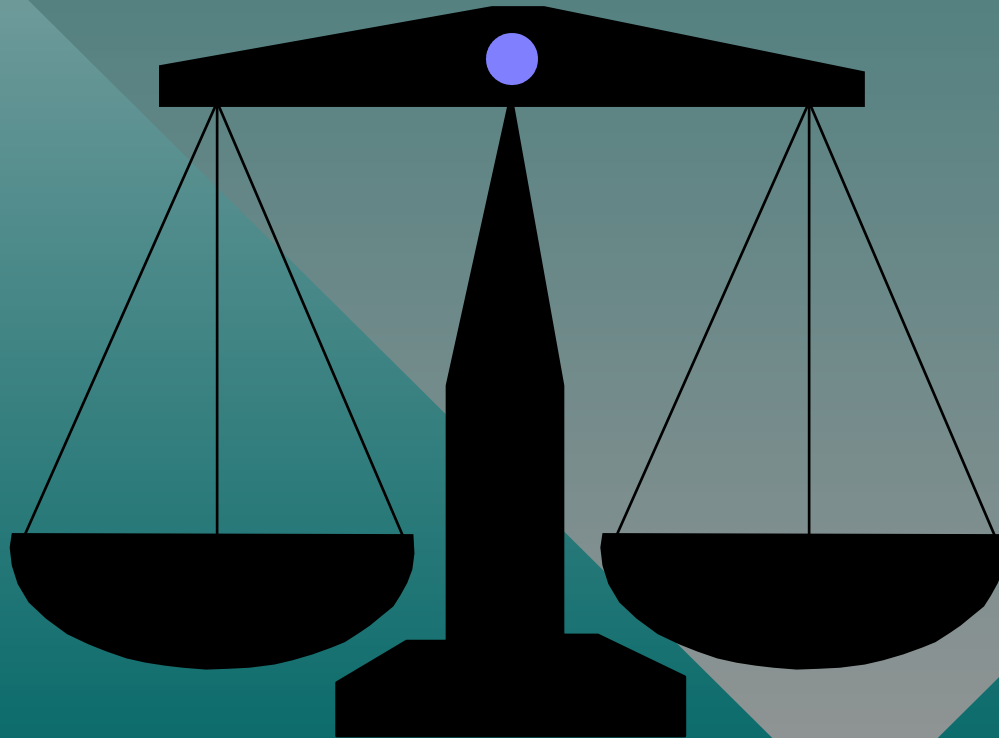
ELIMINATION OF ALCOHOL

NOTHING BUT TIME WILL SOBER YOU UP

There are many myths about “getting sober fast” but none of them work!

- Cold shower
- Fresh air
- Exercise
- Black Coffee

THE LEGAL ENVIRONMENT



SESSION OBJECTIVES

- Discuss the elements of DWI offenses.
- Discuss the provisions of the implied consent law.
- What is BAC
- Legal Presumptions
- Discuss OPNAVINST 5350.4B
- Discuss MCO 5300.12A
- Discuss the relevance of chemical test evidence.

GENERAL DETERRENCE



THE FEAR OF ARREST

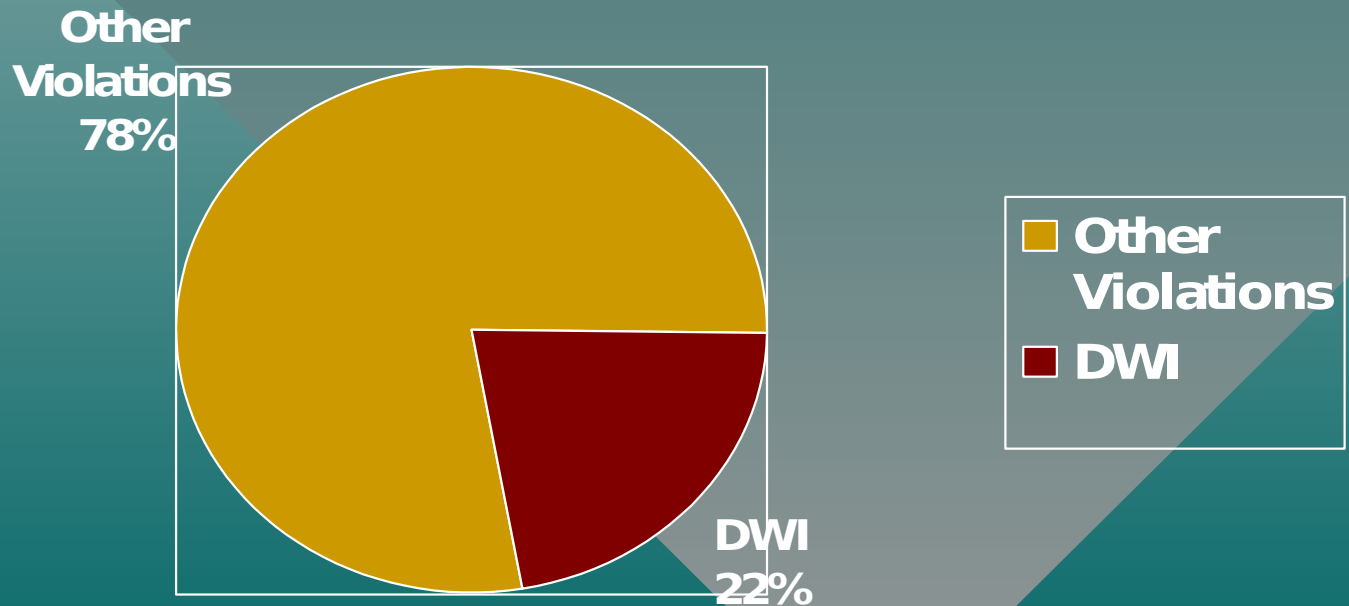
THERE IS NO REASON TO
FEAR ARREST



UNLESS THERE REALLY IS SOME
RISK OF ARREST

Citations issued to violators later found to have BACs between 0.10% and 0.20%

Ft. Lauderdale BAC Study



BASIC DWI STATUTE

It is unlawful for any person to....

- Operate or be in actual physical control of...
- any vehicle....
- within this state...
- while under the influence of alcohol and/or any drug.

Implied Consent

- ▼ Any person who operates a vehicle upon the public highways of this state...
- ▼ shall be deemed to have given consent to submit to a chemical test...
- ▼ for the purpose of determining the alcohol and/or drug content of the blood...
- ▼ when arrested for any acts allegedly committed while operating or in actual physical control of a vehicle while under the influence of alcohol and/or any drug.

BLOOD ALCOHOL CONCENTRATION

What does it mean?

BAC is the number of grams of alcohol found in 100 milliliters of the person's blood.

Example: If a person has a BAC of 10%, then there is one-tenth of a gram of alcohol in every 100 milliliters of the person's blood.

BLOOD ALCOHOL CONCENTRATION

How much does my BAC
Increase with each drink?

It depends on your body weight
and the type of drink.

BLOOD ALCOHOL CONCENTRATION

There are several factors that will determine the extent of your BAC.

- How fast you drink, your mood, and the amount of food in your stomach.
- The amount of alcohol in mixed drinks varies considerably, depending on the bartender or host and the type of liquor used.

ILLEGAL “PER SE” STATUTE

It is unlawful for any person to...

- Operate or be in actual physical control of any vehicle within the state while having a BAC at or above state’s level.
- All 50 states currently have a .08% DUI law

LEGAL PRESUMPTIONS

- 0.10% or more...

Presumed Guilty under most states “per se” law.

- At least 0.08% but less than 0.10%...

Presumed under the influence.

- At least 0.05% but below 0.08%...

No presumption.

- Less than 0.05%...

Presumed not under the influence.

OPNAVINST 5350.4B

- “Zero Tolerance” Alcohol & Drug Abuse
- Aggressive random urinalysis screening
- Violation Provisions
 - Revocation of Driving Privileges
 - Discipline as deemed appropriate (UCMJ)

MCO 5300.12A

“Zero Tolerance” Alcohol & Drug Abuse
Aggressive random urinalysis screening
Violation Provisions

Revocation of Driving Privileges

Discipline as deemed appropriate (UCMJ)

KEY POINT:

➡ Chemical test evidence is not necessarily needed, to obtain a DWI conviction.

Intervention

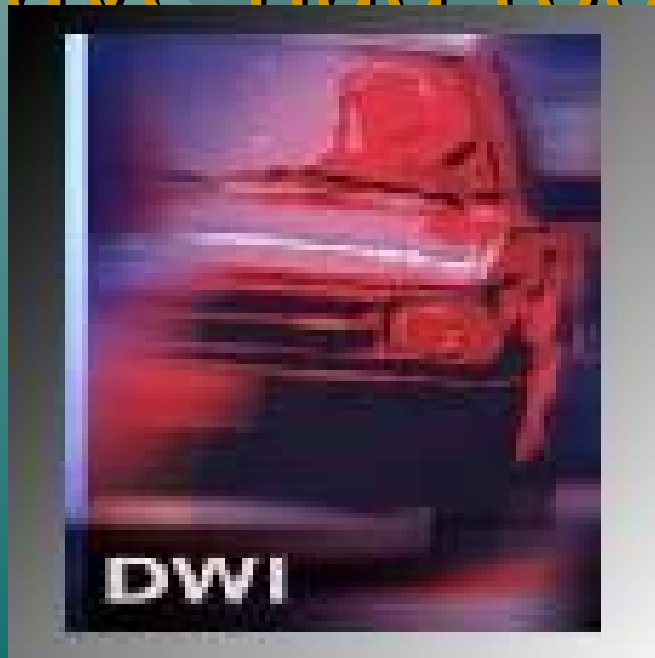
- The responsibility for keeping a drinker from driving belongs to everyone.

There are ways to keep friends from driving after they have had too much to drink.



- Arrange for a safe ride home.
- Be a designated driver

There are ways to keep friends from driving after they have had too much to drink.



- Never ride in a vehicle operated by someone who has been drinking.

There are ways to keep friends from driving after they have had too much to drink



- If you can't control the driver/person try to get the keys of the car.

There are ways to keep friends from driving after they have had too much to



- Stay put. Stay where you are until you sober up. It may take a couple of hours or it may mean staying overnight.

Closing

Drinking And Driving Threatens Everyone!

Driving while intoxicated or under the influence of drugs

- DANGEROUS
- ILLEGAL
- IRRESPONSIBLE

**DO YOUR PART TO
PREVENT INJURIES AND
DEATHS.**

BE SMART - DRIVE

